About This Manual

The *NETGEAR® DG834N RangeMax NEXT Wireless ADSL2+ Modem Router Reference Manual* describes how to install, configure, operate, and troubleshoot the DG834N RangeMax™ NEXT Wireless ADSL2+ Modem Router using its included software. This book describes the software configuration procedures and explains the options available within those procedures.

Who Should Use This Book

The information in this manual is intended for readers with intermediate to advanced system management skills.

This document was created primarily for the system administrator who wishes to install and configure the RangeMax NEXT Wireless ADSL2+ Modem Router in a network. It assumes that the reader has a general understanding of switch platforms and a basic knowledge of Ethernet and networking concepts. To install this modem router, it is not necessary to understand and use all of its capabilities. Once basic configuration is performed, it will function in a network using its remaining factory default settings. However, a greater level of configuration—anywhere from the basic up to the maximum possible—will allow your network the full benefit of the switch's features. The Web interface simplifies this configuration at all levels.

How to Use This Book

This document describes configuration menu commands for the RangeMax NEXT Wireless ADSL2+ Modem Router software. The commands can all be accessed from the Web interface.

- Chapter 1, "Connecting Your Router to the Internet," describes how to use the Smart Wizard Discovery utility to set up your switch so that you can communicate with it.
- Chapter 2, "Configuring Your Wireless Network and Security Settings," describes how to configure the wireless features.
- Chapter 3, "Protecting Your Network," describes how to configure the basic firewall features.
- Chapter 4, "Managing Your Network," describes how describes how to perform network management tasks.
- Chapter 5, "Advanced Configuration," describes how to configure advanced features.

- Chapter 6, "Troubleshooting," describes how to troubleshoot your modem router.
- Appendix B, "Technical Specifications," gives RangeMax NEXT Wireless ADSL2+ Modem Router specifications, lists default feature values, and provides information about features that are supported but are not user-configurable.
- Appendix A, "Related Documents," provides links to reference documents.

Note: See the product release notes for the RangeMax NEXT Wireless ADSL2+ Modem Router Software application level code. The release notes detail the platform-specific functionality of the Switching, SNMP, Config, and Management packages.

Conventions, Formats and Scope

The conventions, formats, and scope of this manual are described in the following paragraphs:

- **Typographical conventions**. This manual uses the following typographical conventions:

Italics	Emphasis, books
Bold	User input, IP addresses, GUI screen text
Fixed	Command prompt, CLI text, code
Italics	URL links

- **Formats**. This manual uses the following formats to highlight special messages:

Note: This format is used to highlight information of importance or special interest.

Tip: This format is used to highlight a procedure that will save time or resources.

Warning: Ignoring this type of note might result in a malfunction or damage to the equipment.

	Danger: This is a safety warning. Failure to take heed of this notice might result in personal injury or death.

- **Scope**. This manual is written for the RangeMax NEXT Wireless ADSL2+ Modem Router according to these specifications:

Product Version	DG834N RangeMax™ NEXT Wireless ADSL2+ Modem Router
Manual Publication Date	October 2008

	Note: Product updates are available on the NETGEAR, Inc. website at *http://www.netgear.com/support*.

How to Use This Manual

The HTML version of this manual includes the following:

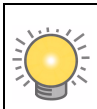
- Buttons, and , for browsing forwards or backwards through the manual one page at a time
- A button that displays the table of contents and an button. Double-click on a link in the table of contents or index to navigate directly to where the topic is described in the manual.
- A button to access the full NETGEAR, Inc. online knowledge base for the product model.
- Links to PDF versions of the full manual and individual chapters.

How to Print this Manual

To print this manual, choose one of the following options:

- **Printing a page from HTML**. Each page in the HTML version of the manual is dedicated to a major topic. Select File > Print from the browser menu to print the page contents.

- **Printing from PDF**. Your computer must have the free Adobe Acrobat Reader installed in order for you to view and print PDF files. The Acrobat Reader is available on the Adobe website at *http://www.adobe.com*.
  - Printing a PDF chapter.
    - Click the **PDF of This Chapter** link at the top left of any page in the chapter you want to print. The PDF version of the chapter you were viewing opens in a browser window.
    - Click the print icon in the upper left of your browser window.
  - Printing a PDF version of the Complete Manual.
    - Click the **Complete PDF Manual** link at the top left of any page in the manual. The PDF version of the complete manual opens in a browser window.
    - Click the print icon in the upper left of your browser window. **Printing the Full Manual**.



Tip: If your printer supports printing two pages on a single sheet of paper, you can save paper and printer ink by selecting this feature.

Revision History

Part Number	Version Number	Date	Description
202-10197-01	1.0	May 2006	Product created
202-10197-02	1.0	October 2008	Screen shots updated, procedures updated, document elements updated, and the following features added or updated: • Multi SSID. See the "Wireless LAN" section in Table 2-1 in Chapter 2, "Configuring Your Wireless Network and Security Settings." • Wireless Access Point Control. See the "Wireless Access Point Control" section in Table 2-1 in Chapter 2, "Configuring Your Wireless Network and Security Settings." • Automatic Daylight Savings Time Adjustment. See "How to Set Your Time Zone" in Chapter 3. • Automatic Firmware Recovery. See "Automatic Firmware Recovery" in Chapter 4. • Remote management from up to ten IP addresses. See "Configuring Remote Management" in Chapter 4. • Internet Group Management Protocol version 2 (IGMP2). See "Internet Group Management Protocol Version 2" in Appendix B. • ITU G.992.5 Annex M standard. See "ITU G.992.5 Annex M" in Appendix B. • Link Layer Topology Discovery (LLTD). See "Link Layer Topology Discovery" in Appendix B. • Wi-Fi Certified 802.11n Draft 2.0. See "Wi-Fi Certified 802.11n Draft 2.0 by the Wi-Fi Alliance" in Appendix B. • Wi-Fi Multimedia Power Save (WMM-PS). See "Wi-Fi Multimedia Power Save" in Appendix B. • Wireless Multimedia Support Quality of Service (WMM QoS). See "Wireless Multimedia Support Quality of Service" in Appendix B.